## **Claims**

What is claimed is:

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1. A system for exploiting power from a pressurized gas reservoir comprising:

means adapted for receiving gas at that is pressurized at a first pressure level from a first portion of an associated gas reservoir system;

means adapted for directing the pressurized gas to a turbine so as to induce motion thereof;

a generator, mechanically coupled to the turbine, the generator including means for generating an electrical current induced from motion of the turbine;

means adapted for directing the gas from the turbine, after passage therethrough, to a second portion of the associated gas reservoir system at a secondary pressure level less than that of the first associated gas reservoir; and

means adapted for using at least a portion of the electrical current to drive an associated compressor, which compressor includes means for increasing the secondary pressure level.

2. The system for exploiting power from a pressurized gas reservoir of Claim 1, further comprising:

means adapted for directing gas at the secondary pressure level to an associated combustion generator so as to generate additional electrical current from combustion thereof; and

means adapted for directing the additional electrical current to the compressor so as to further increase the secondary pressure level.

- 3. The system for exploiting power from a pressurized gas reservoir of Claim 2, wherein the further increase of the secondary pressure level is at least that of the first pressure level.
- 4. The system for exploiting power from a pressurized gas reservoir of Claim 3 wherein the first and second portions of the gas reservoir system are in direct mutual fluid communication.

5. A method for exploiting power from a pressurized gas reservoir comprising the steps of:

receiving gas at that is pressurized at a first pressure level from a first portion of an associated gas reservoir system;

directing the pressurized gas to a turbine so as to induce motion thereof;

generating, at a generator mechanically coupled to the turbine, an electrical current induced from motion of the turbine;

directing the gas from the turbine, after passage therethrough, to a second portion of the associated gas reservoir system at a secondary pressure level less than that of the first associated gas reservoir; and

using at least a portion of the electrical current to drive an associated compressor, which compressor includes means for increasing the secondary pressure level.

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6. The method for exploiting power from a pressurized gas reservoir of Claim 5, further comprising the steps of:

directing gas at the secondary pressure level to an associated combustion generator so as to generate additional electrical current from combustion thereof; and

directing the additional electrical current to the compressor so as to further increase the secondary pressure level.

- 7. The method for exploiting power from a pressurized gas reservoir of Claim 7, wherein the further increase of the secondary pressure level is at least that of the first pressure level.
- 8. The method for exploiting power from a pressurized gas reservoir of
  Claim 7 wherein the first and second portions of the gas reservoir system are in direct
  mutual fluid communication.